

10	30	50
CGCCCAGCCGCCCTCCAAGCCCCGTGAGGTTCCGGGGACCACAATGAACAAGTGCTG		
M N K L		
	70	90
TGCTGCGCGCTCGTGTTCGGACATCTCCATTAAAGTGGACCACCCAGGAAACGTTCCCT		110
<u>C C A L V F L D I S T K W T T O E T F P</u>		
	130	150
CCAAAGTACCTTCATTATGACGAAGAACCTCTCATCAGCTGTGTGACAAATGTCCCT		170
<u>P K Y L H Y D E E T S H Q L L C D K C P</u>		
	190	210
CCTGGTACCTACCTAAAACAACACTGTACAGCAAAGTGGAAAGACCGTGTGGCCCCCTGC		230
<u>P G T Y L K Q H C T A K W K T V C A P C</u>		
	250	270
CCTGACCACTACTACACAGACAGCTGGCACACCAAGTGCAGGAGTGTCTATACTGCAGCCCC		290
<u>P D H Y Y T D S W H T S D E C L Y C S P</u>		
	310	330
GTGTGCAAGGAGCTGCAGTACGTCAAGCAGGAGTGCACCGCACAACCCGCGTGTGC		350
<u>V C K E L Q Y V K Q E C N R T H N R V C</u>		
	370	390
GAATGCAAGGAAGGGCGTACCTTGAGATAGAGTTCTGCTTGAAACATAGGAGCTGCCCT		410
<u>E C K E G R Y L E I E F C L K H R S C P</u>		
	430	450
CCTGGATTTGGAGTGGTGCAGCTGGAACCCAGAGCGAAATACAGTTGCAAAAGATGT		470
<u>P G F G V V Q A G T P E R N T V C K R C</u>		
	490	510
CCAGATGGGTTCTCTCAAATGAGACGTCACTAAAGCACCCGTAGAAAACACACAAAT		530
<u>P D G F F S N E T S S K A P C R K H T N</u>		
	550	570
TGCAGTGTCTTGGTCTCCTGCTAACTCAGAAAGGAAATGCAACACACGACAACATATGT		590
<u>C S V F G L L T Q K G N A T H D N I C</u>		
	610	630
TCCGGAAACAGTGAATCAACTCAAAATGTGGAATAGATGTTACCCCTGTGAGGAGGCA		650
<u>S G N S E S T Q K C G I D V T L C E E A</u>		
	670	690
TTCTTCAGGTTGCTGTCCCTACAAAGTTACGCCTAACTGGCTTAGTGTCTGGTAGAC		710
<u>F F R F A V P T K F T P N W L S V L V D</u>		
	730	750
AATTGCCTGGCACCAAAGTAAACGCAGAGAGTGTAGAGAGGATAAAACGGCAACACAGC		770
<u>N L P G T K V N A E S V E R I K R Q H S</u>		
	790	810
TCACAAAGAACAGACTTCCAGCTGCTGAAGTTATGGAAACATCAAAACAAAGACCAAGAT		830
<u>S Q E Q T F Q L L K L W K H Q N K D Q D</u>		
	850	870
ATAGTCAGAACAGATCATCCAAGATATTGACCTCTGTGAAAACAGCGTGCAGCGGCACATT		890
<u>I V K K I I Q D I D L C E N S V Q R H I</u>		
	910	930
GGACATGCTAACCTCACCTTCGAGCAGCTCGTAGCTGATGGAAAGCTTACCGGGAAAG		950
<u>G H A N L T F E Q L R S L M E S L P G K</u>		
	970	990
AAAGTGGGAGCAGAACAGACATTGAAAAAACATAAAGGCATGCAAACCCAGTGCACAGATC		1010
<u>K V G A E D I E K T I K A C K P S D Q I</u>		
	1030	1050
CTGAAGCTGCTCAGTTGTGGCGAATAAAAATGGCGACCAAGACACCTTGAGGGCTA		1070
<u>L K L L S L W R I K N G D Q D T L K G L</u>		
	1090	1110
ATGCACGCACTAAAGCACTCAAAGACGTACCACTTTCCAAAACGTCACTCAGAGTCTA		1130

FIGURE 1(A)

M H A L K H S K T Y H F P K T V T Q S L
1150 1170 1190
AAGAAAGACCATCAGGTTCCCTCACAGCTTCACAATGTACAAATTGTATCAGAAGTTATTT
K K T I R F L H S F T M Y K L Y Q K L F
1210 1230 1250
TTAGAAATGATAGGTAACCAGGTCCAATCAGTAAAAATAAGCTGTTATAACTGGAAATG
L E M I G N Q V Q S V K I S C L *
1270 1290 1310
GCCATTGAGCTTTCTCACAAATTGGCGAGATCCCATGGATGAGTAAACTGTTCTCAG
1330 1350 1370
GCACTTGAGGCTTCAGTGATATCTTCTCATTACCAAGTGAACATTTGCCACAGGGTA
1390 1410 1430
CTAAAAGAAACTATGATGTGGAGAAAGGACTAACATCTCCTCCAATAAACCCCAAATGGT
1450 1470 1490
TAATCCAACGTCAAGATCTGGATCGTTATCTACTGACTATATTTCCCTTATTACTGCTT
1510
GCAGTAATTCAACTGGAAAAAAAAAAA

FIGURE 1(B)

10	30	50
ATGAAACAAGTTGCTGTGCTGCGCCTCGTGTTCCTGGACATCTCCATTAAAGTGGACCACC		
M N K L L C C A L V F L D I S I K W T T		
70	90	110
CAGGAAACGTTCCCTCCAAAGTACCTTCATTATGACGAAGAACCTCTCATCAGCTGTG		
Q E T F P P K Y L H Y D E E T S H Q L L		
130	150	170
TGTGACAAATGTCCTCCTGGTACCTACCTAAAACAACACTGTACAGCAAGTGGAAAGACC		
C D K C P P G T Y L K Q H C T A K W K T		
190	210	230
GTGTGCGCCCCCTTGCCCTGACCACTACTACACAGACAGCTGGCACACCAAGTGACGAGTGT		
V C A P C P D H Y Y T D S W H T S D E C		
250	270	290
CTATACTGCAGCCCCGTGCAAGGAGCTGCAAGTACGTCAAGCAGGAGTGCAATCGCACC		
L Y C S P V C K E L Q Y V K Q E C N R T		
310	330	350
CACAACCGCGTGTGCAATGCAAGGAAGGGCGTACCTTGAGATAGAGTTCTGCTTGAAA		
H N R V C E C K E G R Y L E I E F C L K		
370	390	410
CATAGGAGCTGCCCTGGATTTGGAGTGGTGCAGCTGGAAACCCAGAGCGAAATACA		
H R S C P P G F G V V Q A G T P E R N T		
430	450	470
GTTTGCAAAAGATGTCCAGATGGGTTCTCTCAAATGAGACGTCACTAAAGCACCCCTGT		
V C K R C P D G F F S N E T S S K A P C		
490	510	530
AGAAAACACACAAATTGCAAGTGTCTTGCTCTCTGCTAACTCAGAAAGGAAATGCAACA		
R K H T N C S V F G L L L T Q K G N A T		
550	570	590
CACGACAAACATATGTCGGAAACAGTGAATCAACTCAAAATGTGGAATAGATGTTACC		
H D N I C S G N S E S T Q K C G I D V T		
610	630	650
CTGTGTGAGGAGGCATTCTCAGGTTGCTGTTCTACAAAGTTACGCCTAACTGGCTT		
L C E E A F F R F A V P T K F T P N W L		
670	690	710
AGTGTCTTGTAGACAATTGCTGGCACCAAAAGTAAACGCAGAGAGTGAGAGGATA		
S V L V D N L P G T K V N A E S V E R I		
730	750	770
AAACGGCAACACAGCTACAAGAACAGACTTCCAGCTGCTGAAGTTATGAAACATCAA		
K R Q H S S Q E Q T F Q L L K L W K H Q		
790	810	830
AACAAAGACCAAGATATAGTCAAGAACAGATCATCCAAGATATTGACCTCTGTGAAAACAGC		
N K D Q D I V K K I I Q D I D L C E N S		
850	870	890
GTGCAGCGGCACATTGGACATGCTAACCTCACCTCGAGCAGCTCGTAGCTTGATGGAA		
V Q R H I G H A N L T F E Q L R S L M E		
910	930	950
AGCTTACCGGGAAAGAAAAGTGGGAGCAGAACAGACATTGAAAAAACAATAAGGCATGCAA		
S L P G K K V G A E D I E K T I K A C K		
970	990	1010
CCCAGTGACCAAGATCCTGAAGCTGCTCAGTTGTGGCGAATAAAAGGACCAAGAC		
P S D Q I L K L L S L W R I K N G D Q D		
1030	1050	1070
ACCTTGAAGGGCTTAATGCACGCACAAAGCACTCAAAGACGTACCACTTCCAAA		
T L K G L M H A L K H S K T Y H F P K T		
1090	1110	1130
GTCACTCAGAGTCTAAAGAACGACATCAGGTTCTTCACAGCTCACAATGTACAAATTG		
V T Q S L K K T I R F L H S F T M Y K L		
1150	1170	

FIGURE 2(A)

TATCAGAAGTTATTTTTAGAAAATGATAGGTAATCTAGAAAAGATCTAA
Y Q K L F L E M I G N L E K I

FIGURE 2(B)

1MNKLLCCALVFLDISIKWTTQETFPP.....KYLHYDEETS 36
1 MAPVAVWAALAVGLELWAAHALPAQVAFTPYAPEPGSTCRRLREYYDQTA 50
37 HQLLCDKCPPGTYLQHCTAKWKTVCAPCPDHYYTDSWHTSDECLYCSV 86
51 .QMCCSKCSPGQHAKVFCRKTSQCDSCEDSTYTQLWNWVPECLSCGSR 99
87 CKELQYVKQECNRTHNRVCECKEGRYLEIE.....FCLKHRSCKPPGFGV 130
100 CSSDQVETQACTREQNRICTCRPGWYCALSQEGCRLCAPLRKCRPGFGV 149
131 VQAGTPERNTVCKRCPDGFFSNETSSKAPCRKHTNCVFGLLLTKGNAT 180
150 ARPGTETSDVVCKPCAPGTFSNTSTDICRPHQICNVVAI....PGNAS 195
181 HDNIC.....SGNSESTQKCGIDVTLCLEEAFF... 207.
196 MDAVCTSTS PTRSMAPGAHVLPQPVSTRSQHTQPTPEPSTAPSTSFLPM 245
208RFAVPTKFTPWNWLSQLVDNLPGTKVNAESVERIKR.... 242
246 GPSPPAEGSTGDFALPVGLIVG..VTALGLLIIGVVNCVIMTQVKKPLC 293
243 .QHSSQEQTQFQLLKLWKHQNKDQDIV.....KKIIQDIDLCENSVQRHIG 286
294 LQREAKVPHLPADKARGTQGPQQHLLITAPSSSSSLESSASALDRRAP 343
287 HANLTFEQLRSLMESLPK...KVGAEDIEKTIKACKPSDQILKLLSLWR 333
344 TRNQP..QAPGVVEASGAGEARASTGSSDSSPGGHGTQVNNTCIVNCSSS 391
334 IKNGDQDTLKGLMHALKHSKYHFPKTWTQSLKKTIRFLHS.....FTMY 378
392 DHSSQCSSQASSTMGDTDSSPSESPKDEQVPDFSKEECAFRSQLETPTLL 441
379 KLYQKLFLEMIGNQVQSVKISCL. 401
442 GSTEEKPLPL.GVPDAGMKPS... 461

FIGURE 3

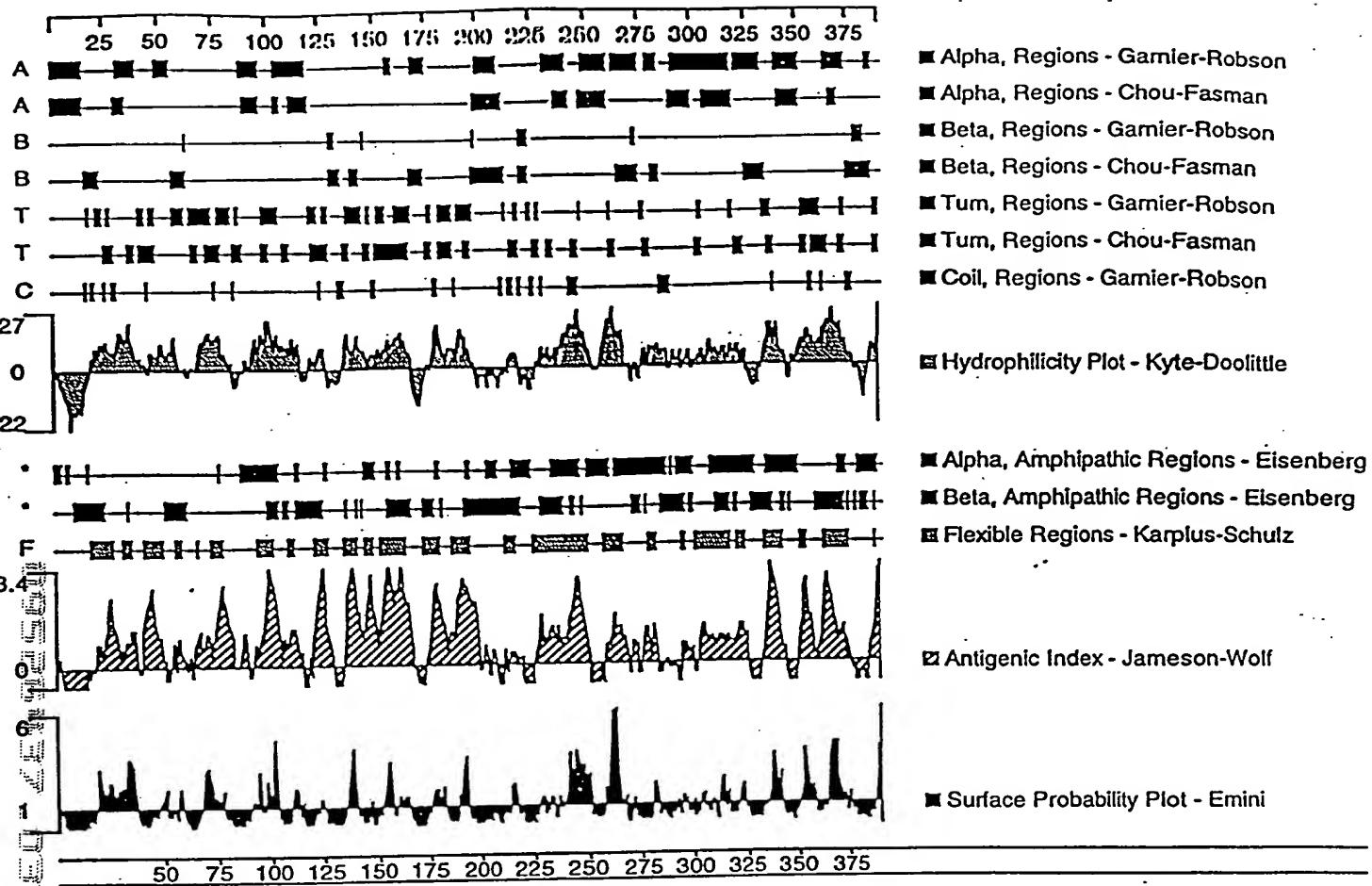


FIGURE 4

Goat anti-human sTNFR I has cross-reactivity to HSABH13

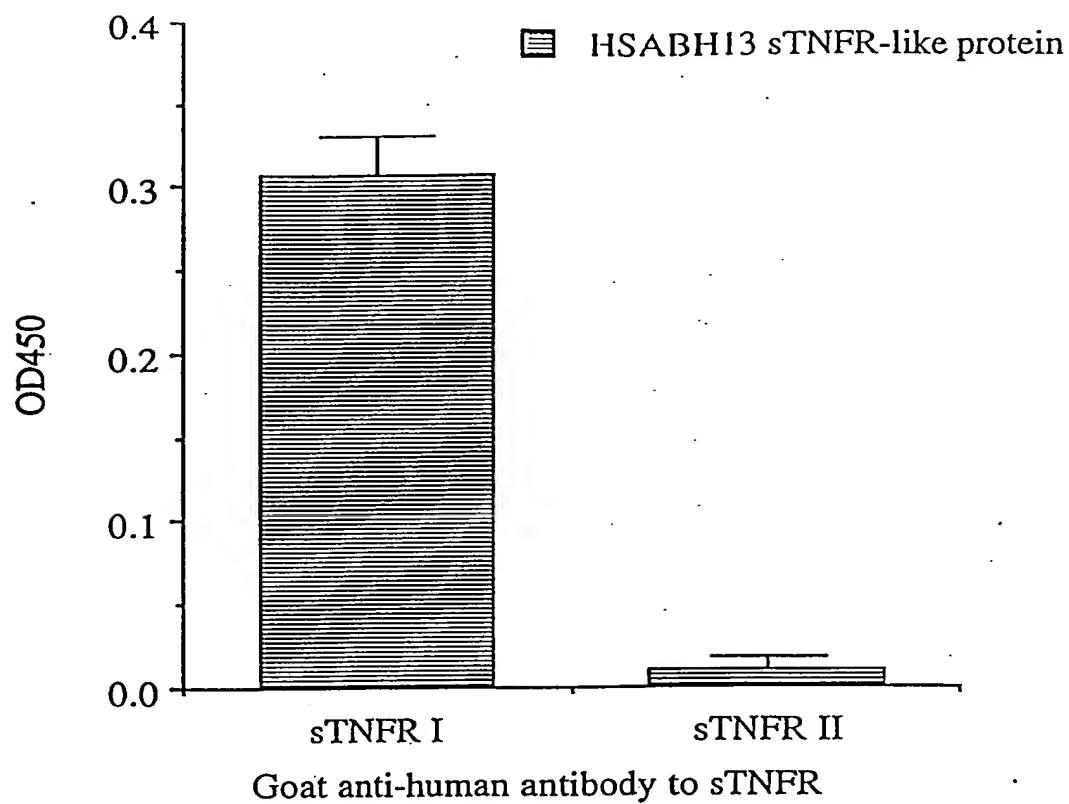
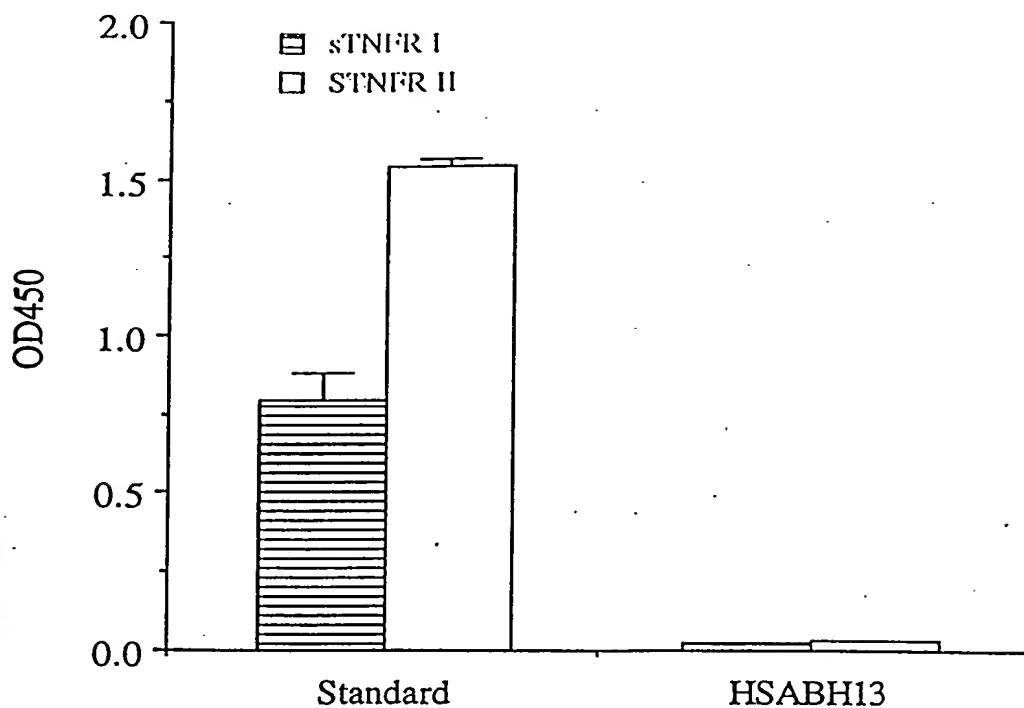


FIGURE 5

HSABH13 does not bind to the mAb to sTNFR I or sTNFR II



ELISA Assay (plate coated with mAb to sTNFR I or STNFR II)

FIGURE 6

TNF-beta has higher affinity to HSABH13 than TNF-alpha,
and HUVEO19 does not inhibit the binding

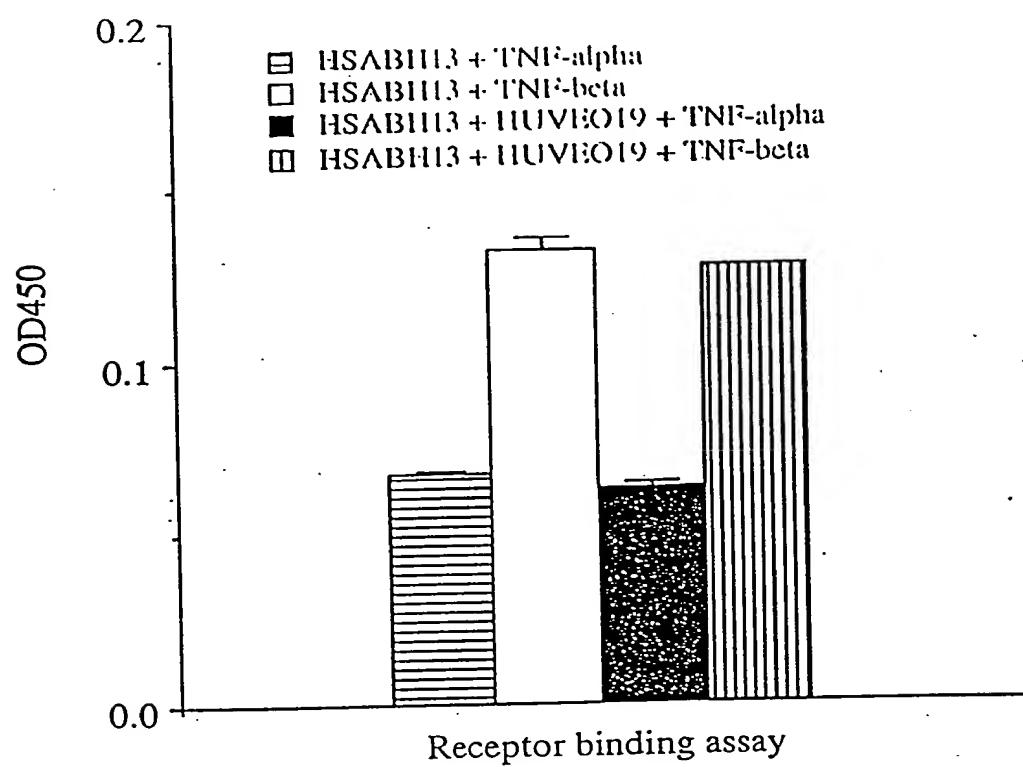


FIGURE 7

HSABH13 does not compete with sTNFR I to bind TNF-alpha,
may compete with sTNFR II to bind TNF-alpha

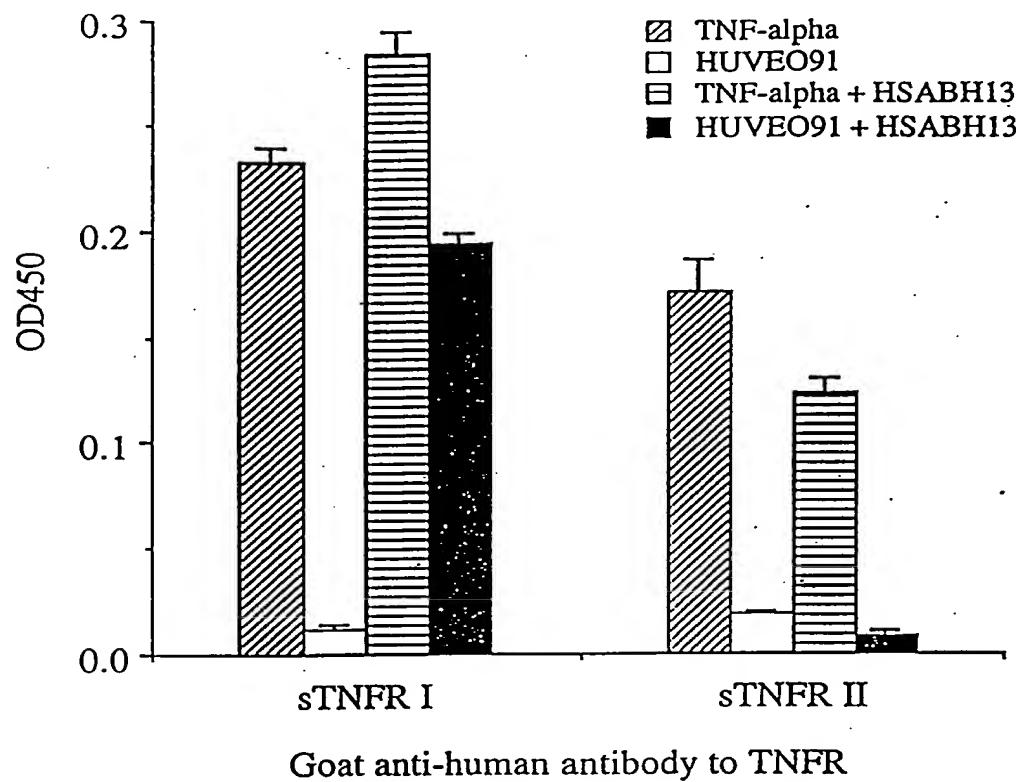
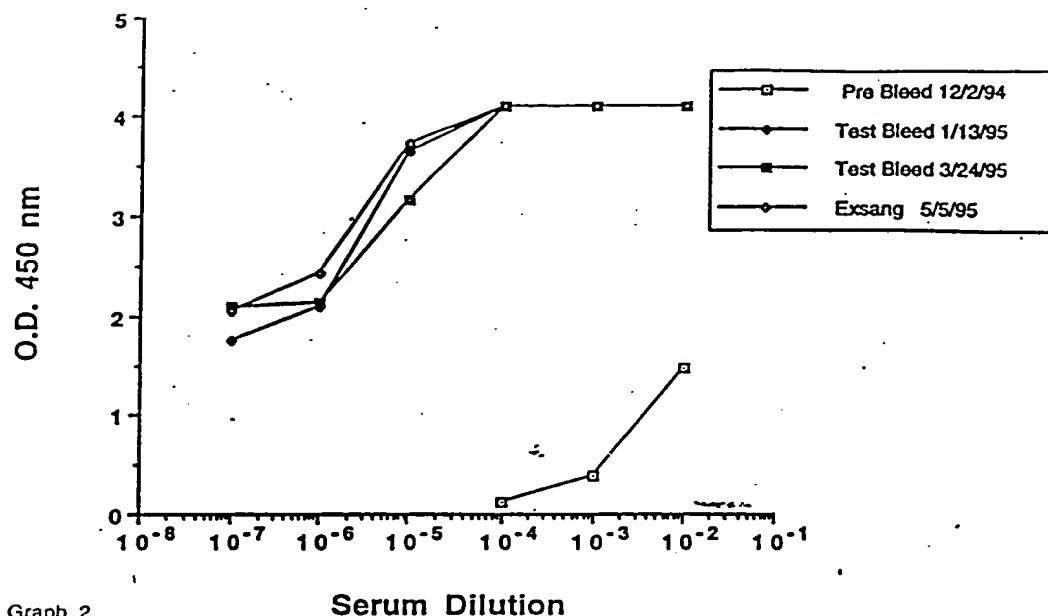


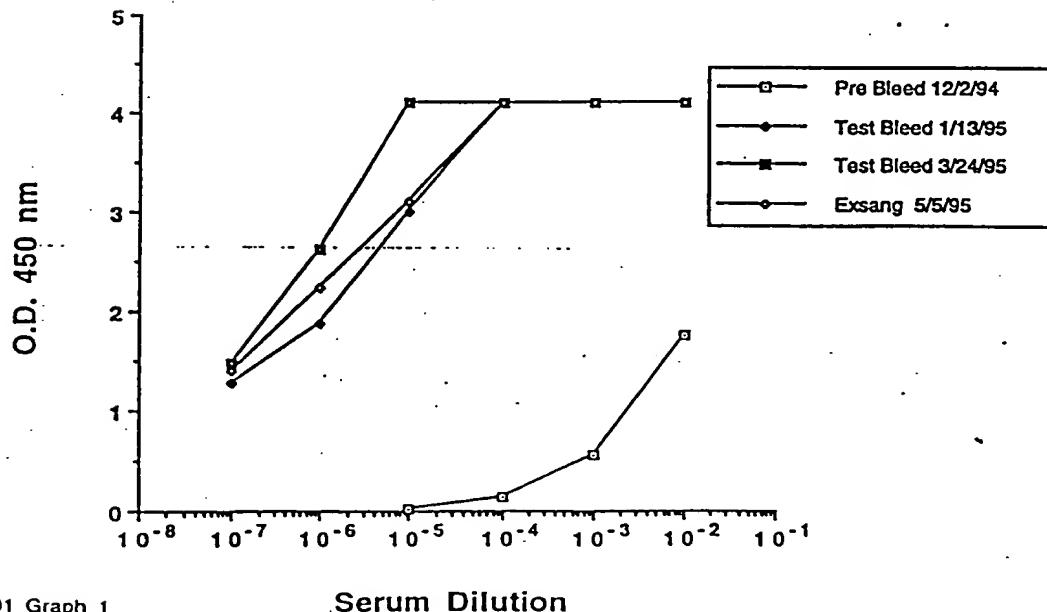
FIGURE 8

**Titer of Rabbit #11509 Tested Against
TNFr Batch HG02900-1-B**



2900.01 Graph 2

**Titer of Rabbit #11508 Tested Against
TNFr Batch HG02900-1-B**



2900.01 Graph 1

FIGURE 9